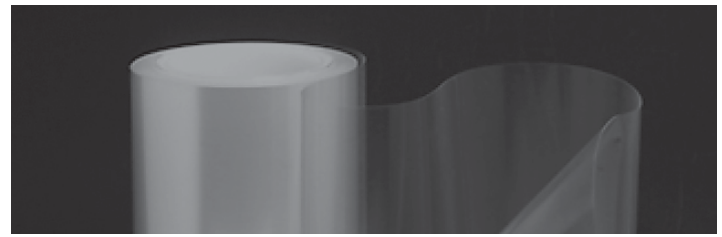




DICING TAPES

ProFilm™ DU099D

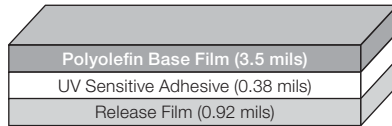


Advantek ProFilm™ DU099D is a protective surface film designed to deliver consistent, precise and repeatable wafer production yields. Enhanced with superior ultraviolet adhesive coating technology, ProFilm™ DU099D offers Total Thickness Variation (TTV) control, expandable base film, and a special low extractable release liner that significantly reduces silicon residue.

- Specially formulated polyolefin film for unparalleled protection
- Coated with stable UV curable pressure-sensitive adhesive
- Features expandable chloride-free base film
- Easy die removal post UV light exposure
- Film minimizes or eliminates die rocking and other picking defects
- Film is transparent and untinted to help human and electronic vision die defect recognition

Construction

Advantek ProFilm™ DU099D is constructed in three layers:



Configurations

Advantek ProFilm™ DU099D is available in a variety of configurations. Standard widths include 200mm, 230mm, 250mm, 275mm, 300mm, 330mm and 400mm. Rolls are provided in splice-free lengths of 100m on a 3" I.D. plastic core. Both custom widths and lengths may be available by special request. ProFilm™ DU099D rolls are polybag wrapped and individually boxed.

Shelf Life and Storage

Advantek ProFilm™ DU099D should be stored in a climate controlled environment where conditions do not exceed 27°C +/- 10° and 30% RH +/- 20%. This product is sensitive to UV light, so store away from heat and direct sunlight. If stored as recommended, the product will yield a shelf life of 12 months from the date of manufacture found on the core label.

Advantek ProFilm™ DU099D Material Properties

| Property | Typical Value | Test Method/Standard |
|--------------------------------|--|----------------------|
| Adhesive Strength ¹ | 570g min before UV (20 min.) 20-100g/25mm after UV ² | ASM D 1000 |
| Tensile Strength | 15 N/mm ² MD 9 N/mm ² TD | ASTM D 882 |
| Elongation | >600% MD >600% TD | ASTM D 882 |
| Thickness w/o Release Liner | 99µ (3.9 mils) | ASTM D 1005 |
| Temperature Resistance | <5 min. @ 50-60°C >5 min. @ 40-45°C | |

¹ Bond Test on Stainless Steel Wafer at 180° peel angle and 300mm/min peel and stretching speed.
² UV exposure of 300 mJ/cm²
The values presented for this product are typical laboratory data and may be changed without notice.

Advantek ProFilm™ DU099D Material Ionics Data (ppm)

| | |
|-----------|--------|
| Fluoride | <0.025 |
| Chloride | 0.231 |
| Bromide | <0.025 |
| Nitrate | <0.025 |
| Phosphate | <0.025 |
| Sulfate | 0.05 |
| Sodium | 0.459 |
| Ammonium | <0.025 |
| Potassium | 0.056 |
| Magnesium | <0.025 |
| Calcium | 0.131 |

The above is typical data and should not be used for any specification purposes.



Our wide line of component packaging products offers the flexibility you need to balance price and performance.



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| | | | | | | |
|--------------------------|----------------|-----------------|--------------------|-----------------|--------|--------|
| Embossed Carrier Tapes | SFT® | Complex Designs | Basic Designs | Interleaf Tapes | | |
| Cover Tapes | Heat Activated | | Pressure Sensitive | | | |
| Packaging Reels | Pro | Ultra | Lite | Trimline | | |
| Barrier Bags | DRYLOK® | | STATLOK® | | | |
| Bands | PROBAND® | | LOKBAND® | | | |
| Humidity Indicator Cards | 1 Spot | 3 Spot | 4 Spot | 6 Spot | | |
| Desiccant | 1/3 Unit | 1/2 Unit | 1 Unit | 2 Unit | 4 Unit | 8 Unit |
| Dicing Tapes | UV Cured | | Non UV Cured | | | |

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